

## Lighting management units drive 20 series-connected LEDs

One of the biggest market opportunities today is the application of LEDs to the portable electronics market. With over a dozen LEDs of various types per phone, optimising multi-function control and power efficiency demands well-designed, competitively-priced, compact microcircuit controllers. National Semiconductor is one of the key players in this area and has just launched two new, highly integrated lighting management

units (LMUs) that include a high-voltage boost converter and programmable constant-current driver to control up to 20 series-connected LEDs in display backlights, and keypad, RGB and camera flash LEDs.

The LP3958 and LP5526 LMUs feature tiny micro SMD packages and are well-suited for cell phones and other handheld devices. National's new LMUs drive from two to five strings of four series-connected LEDs,

depending on the lighting application. They are optimized for use in single- or dual-display phones, as well as large display PDA phones. Each features three general-purpose input/outputs (GPIOs) to trigger lighting functions such as flash or to control additional device-enable signals. The LP3958 features 70 mA of output current for powering display backlight LEDs and the LP5526 features 150 mA of output current for powering display backlight and Flash LEDs. Both devices include an I2C interface.

In single and dual displays, the LP3958 LMU drives up to eight white LEDs grouped as four series-connected LEDs per string, with typically one string per display. The LP5526 has the same features and packaging as the LP3958 and can drive multi-die serial-flash LEDs in camera flash (up to 3W of power) and torch applications.

For more details, visit: [www.national.com](http://www.national.com)



## III-V devices aid motion capture

Oxford, UK, based VICON, has been able to take its hit VICON MX motion capture solutions another step forward with a new set of hardware advances. These simplify high camera-count motion capture set up, automate simultaneous live-action footage capture, provide powerful and production-friendly near-IR strobes and round out the MX line with a two million-pixel, full grayscale MX camera, VICON MX20+.

Enhancements include new surface mount near-IR strobes to give double the power and let customers use NIR while realizing greater and more uniform illumination in the capture zone. The strobes work with both new and existing MX cameras and enhance user- and performer-friendliness and the ability to see detail.

Completely 'lead-free' motion capture – in a benefit to clients and capture sessions and to comply with new and expected regulations, all MX cameras and control boxes are now lead-free.

"With these hardware enhancements VICON MX even further eclipses other motion capture solutions," said Tom Tolles, Worldwide Entertainment Product Marketing, VICON. "We are supporting higher camera counts, greater power, accuracy and sync with other production and analytic tools, while also improving the experience as clients configure and capture with VICON MX. In a nod to the times, we've also taken the opportunity to re-design our VICON MX cameras and control boxes so that the circuitry is now fully lead-free."

For more details, visit: [www.vicon.com](http://www.vicon.com)

## White LED driver

Marktech has expanded its Toshiba constant-current white LED driver product line with a compact DC/DC convertor IC for powering multisegment white LEDs used to backlight new larger, colour LCD panels in small portable devices such as cellphones and PDAs.

The high-precision high-performance TB62752AFUG white LED driver IC allows designers to save space and reduce component count by using a single device to drive from two to eight LEDs in series. High output power allows for up to 800mW LED loading, while built-in protection functionality, including

a dedicated surge-detection pin, further minimises the need for external components.

It also offers Cotco's new WR1 series which combines familiar LED benefits such as long life, small die size and rugged design with a pleasant warm colour. This series is offered in both 5mm and SMD styles.

It also offers the quad, flat, no-lead IC packaging Mini Dorado LED. This can be soldered with reflow equipment and adapt to existing production systems, requiring no additional hardware purchases.

For more details, visit: [www.marktechopto.com](http://www.marktechopto.com)

## OLED ink pact

Cambridge Display Technology (CDT) and H.C. Starck have extended their current co-operative relationship by which CDT will supply customised formulations of Starck organic materials used in the manufacture of P-OLED displays.

H.C. Starck is a key supplier of 'hole transport' materials used in P-OLED displays, a technology in which CDT is a leading developer. CDT will distribute materials solutions which it will formulate for specific ink jet printing applications.

For more details, visit: [www.cdtltd.co.uk](http://www.cdtltd.co.uk)